Quick Installation Manual
LCD GSM Touch Keypad Wireless Alarm System

By shield4u

http://www.usmartbuy.com

(Version 20120207)

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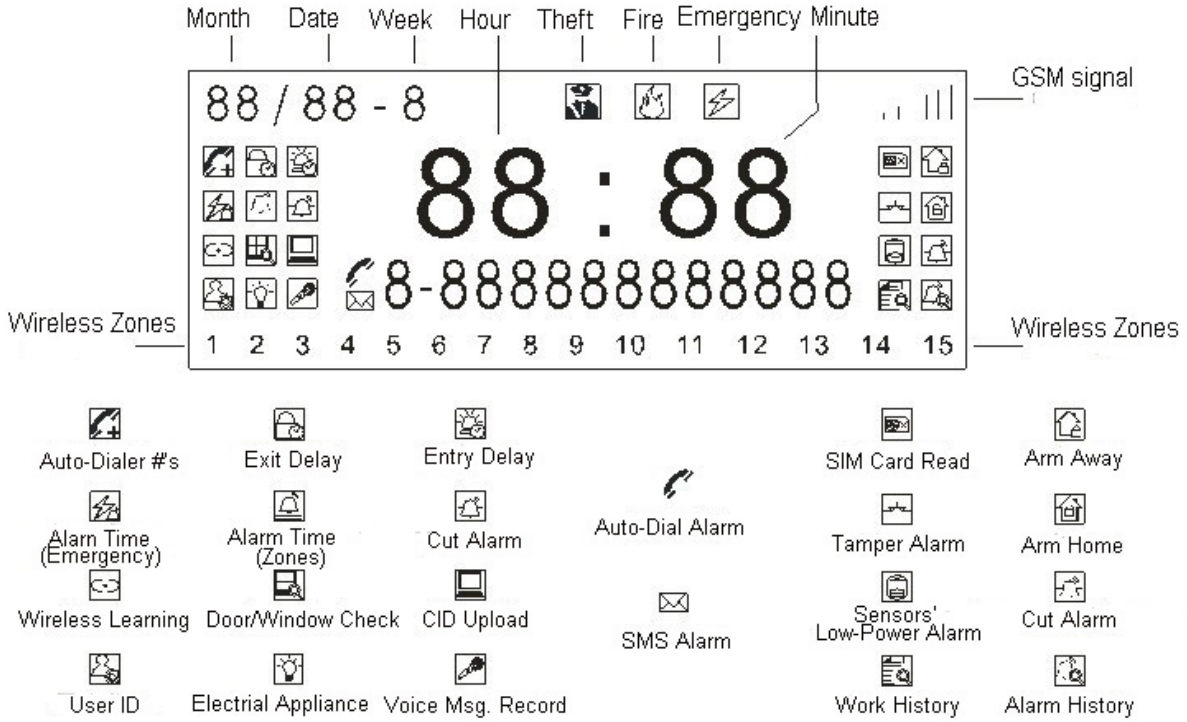
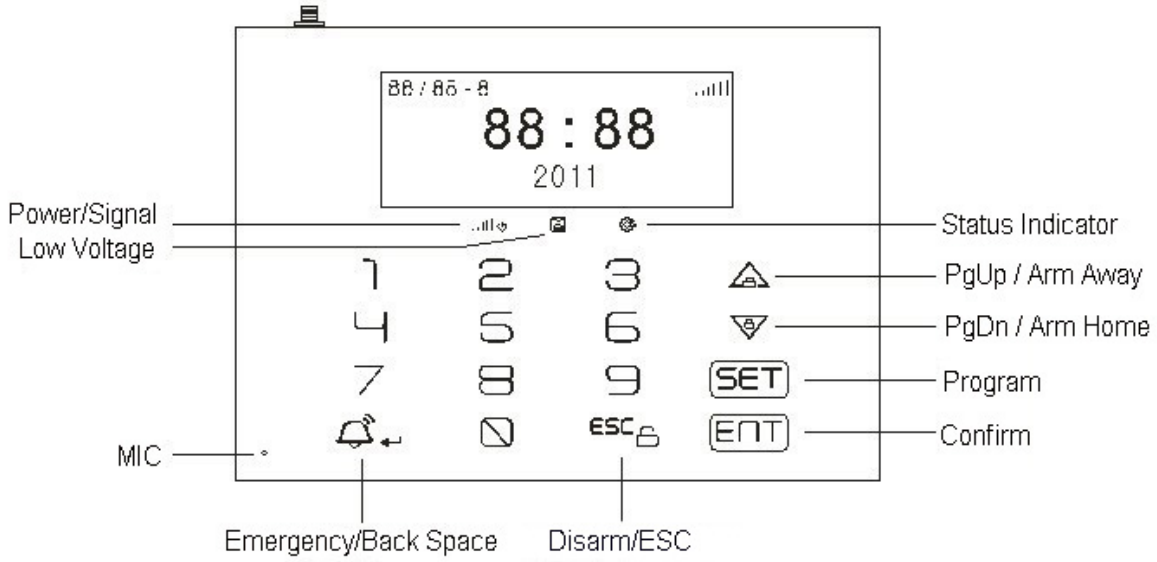
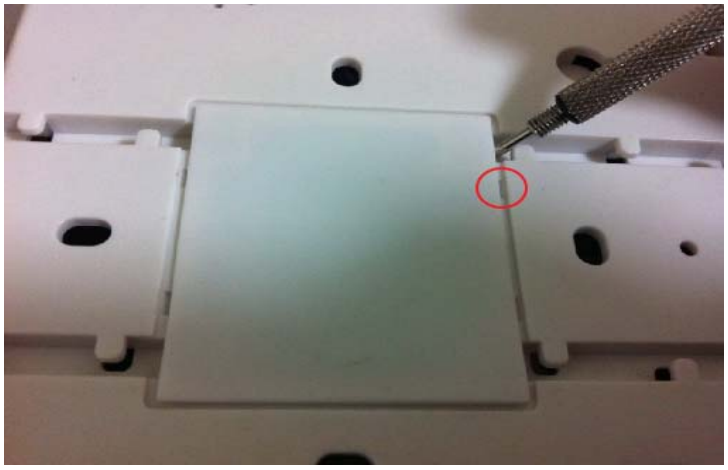
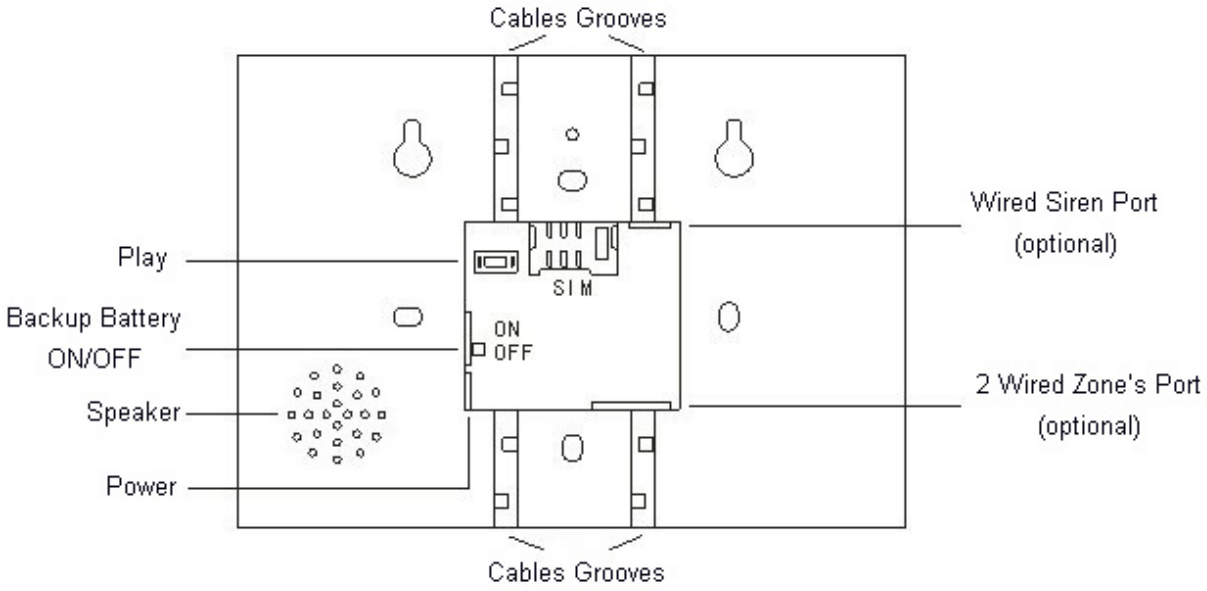
A. Alarm Understanding

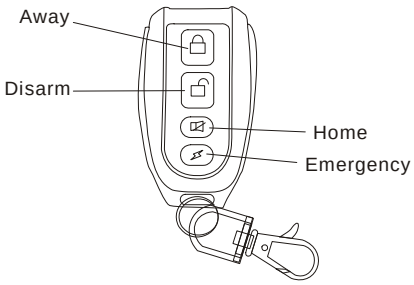






Remove the back protection cover by using a screw driver





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Function	Signal	Interpretation
Buzzer	Short “Beep” twice	Error in command or failed operation
	Long “Beep” once or twice	Successful in command or successful operation
Signal/Power LED	Blinking every 5 second	GSM module, and SIM card working properly
	Always lit	GSM signal weak, or SIM card not found
	Blinking every 1 second	GSM signal weak, or SIM card not found
Low Power Indicator	Always lit	The internal backup battery is low

B. Manipulation Specification

1. Zone types and definitions

i) Perimeter zone (zone number 06 – 10): Generally is used for wireless door/window gap sensor

ii) Motion zone (zone number 11 – 15): At home arm status, sensors in this zone will not trigger the alarm. Generally is used for wireless wide-angle PIR.

iii) Emergency zone (zone number 01 – 05): All sensors in Emergency zone will trigger the alarm whenever the alarm is armed or disarmed. It is used for detecting the space like Emergency area (such as emergency distress, medical rescue, gas leakage and fire alarm, etc.), this zone keeps 24-hour monitoring. Generally is used for panic button, wireless gas sensors and wireless smoke sensors.

2. Arming

Arming means that when there are no persons at home, and need to all-around guarded. All detectors are working. Once something triggers the detectors, the alarm sets off. After arming operation, is shown on the host’s LCD.

3. Home arming

Home arming means that when there are some body at home, for the sake of security, it is needed to make the outside doors, windows, balconies, and around detectors of the alarm system work. But, it is also needed to avoid the person at home from triggering the domestic detectors to alert wrongly. At that time, we choose home arming, letting some detectors work and the other not. At home arming status, all sensors in motion zone will not trigger the alarm. After Home arming operation, is shown on the host’s LCD.

4. Disarming operation

Disarming means that when control host sets off, it can stop the alerting or make the system on the disarmed status. After disarming, even triggering detectors can NOT make the control host alert, except the detectors in emergency zone or emergency key in the remote control.

5. Emergency alerting

When emergency happens, press on the emergency key in the remote control, keypad or panic button.

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C. Host Installation

DO NOT INSERT THE SIM CARD INTO THE CONTROL HOST WHILE THE CONTROL HOST IS TURNED ON OR WORKING

1. Make sure the SIM card PIN code and password are turned off
2. It is recommended to turn off the voice mail for the SIM card
3. Put on the antenna (please do not over-tighten the nut)
4. Remove the small protection cover at back of the control host by using a screw driver (see the 3rd picture in section A)
5. Insert the SIM card in to the slot at the back of the host with the metal contact faced down
6. Connect the power to the host and turn the switch at the back to ON
7. Wait for searching the GSM network for a while
8. If the GSM Signal LED on the host blinking every 5 seconds, it means the host has found the GSM signal. If the GSM Signal LED on the host blinking every 1 second or stay on, it means the host has not found the GSM signal, please check if the SIM card has been installed properly

D. Local Arm/Home Arm/Disarm/Emergency Alarm

1. Arm

i) By wireless remote control：Press the "Away" button, is shown on the LCD and control host will beep once to complete the operation successfully

ii) By keypad on the control host: press"▲" on the control host keypad to choose Arm (is shown in the LCD)

2. Home arm

i) By wireless remote control：Press the "Home" button, is shown in the LCD and the control host will beep once to complete the operation successfully

ii) By keypad on the control host: press"▼" on the control host keypad to choose Home Arm (is shown in the LCD)

4. Emergency Alarm

i) By wireless remote control: Press the Emergency button on the remote control, alarm is set off and is shown on the LCD

ii) By keypad on the control host: Press key, alarm is set off and is shown on the LCD

3. Disarm

i) By wireless remote control: press the corresponding disarm button and the host will beep twice to successfully complete the operation

ii) By keypad on the control host: Press 【ESC】 and enter password → Press 【ENT】 → the control host will beep twice to successfully complete the operation

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E. How to Enter into Control Host Program Status

Before operating the alarm function setting commands, user needs to make sure the control host has entered into the program status:

Press 【SET】 → Input Password (default: 888888) and press 【ENT】

F. Register (Program/Learn) Sensors to the Control Host

1. Register siren to the control host

Normally, the wireless indoor siren has already been registered with the control host by manufacturer, not need to register again.

i). Register wireless indoor siren to the control host

- Make sure the control host is in disarmed status
- Turn off all sensors
- Connect the indoor strobe siren to the power socket and then wait 10 seconds for the initialization
- Press and hold the "Learn" button at the side of the indoor siren for about 15 seconds and all lights flash once
- Press the "Learn" button at the side of the indoor siren and all lights on
- Press key on the host and alarm host goes off
- Press key on the host and input password and press 【ENT】
- The indoor strobe siren flash for 5 times to indicate the learning is successful

ii).Register wireless Outdoor Strobe Siren to the host

- Make sure the control host is in disarmed status
- Turn off all sensors
- Turn off wireless indoor siren
- Connect the outdoor strobe siren to the power socket and wait 10 seconds for the initialization
- Press down the green button at the back of the outdoor siren
- Press red button at the back of outdoor siren and all lights on (not only power LED)
- Press key on the host and alarm host goes off
- Press key on the host and input password and press 【ENT】
- The outdoor strobe siren flash for 5 times to indicate the learning is successful

2. Register sensors to the control host

Normally, the sensors in the big blue box have been programmed (learned) to the host. For additional sensors, please refer to the user manual or sections below for how to program sensors (learn sensors) to the host

Command: → **【ENT】→Press** to delete two digits→ **Input YY → 【ENT】→ 1**

Where "YY": Zone number, includes"00 ~15"

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***It is recommended that to turn off all sensors first and then only turn on the sensor which needs to be learned. After each successful learning, please turn off the learned sensor and turn on the next sensor which needs to be learned.**

i). Register remote control to the control host:

Use zone 00 for remote control and it can learn up to 10 remote controls

Press【SET】→ Input Password (default: 888888) and press【ENT】→ Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ ①Press key to delete two digits at right down side and input zone number 00 and Press 【ENT】→ Press ▼ to change one digit at right down side to **1** and press 【ENT】and then **1** is blinking → Press the button on the remote **twice** successively → when hear long "Beep" from the control host, this means the sensor learning is successful
After that please start from ① again to register another sensor.

ii). Register door/window gap sensor to the control host:

Normally, zones 06 to 10 are used for door/window gap sensor. Each zone can learn 4 sensors.

Open the cover at the side of the sensor and put in a battery →
Press【SET】→ Input Password (default: 888888) and press【ENT】→ Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ ①Press key to delete two digits at right down side and input zone number (can be any zone number between 06 to 10) and Press【ENT】→ Press ▼ to change one digit at right down side to **1** and press 【ENT】and then **1** is blinking → use magnet contact to trigger the sensor **twice** successively → when hear long "Beep" from the control host, this means the sensor learning is successful
After that please turn off registered sensor and start from ① again to register another sensor.

iii). Register PIR to the control host:

Normally, zones 11 to 15 are used for PIR sensor. Each zone can learn 4 sensors

Open PIR's cover and install the battery →
Press【SET】→ Input Password (default: 888888) and press【ENT】→ Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ ①Press key to delete two digits at right down side and input zone number (can be any zone number between 11 to 15) and Press【ENT】→ Press ▼ to change one digit at right down side to **1** and press 【ENT】and then **1** is blinking → Turn on the switch at the side of the sensor (up for ON and down for OFF) and press the sending button on the PIR's PCB **twice** successively → when hear long "Beep" from the control host, this means the sensor learning is successful
After that please turn off registered sensor and start from ① again to register another sensor.

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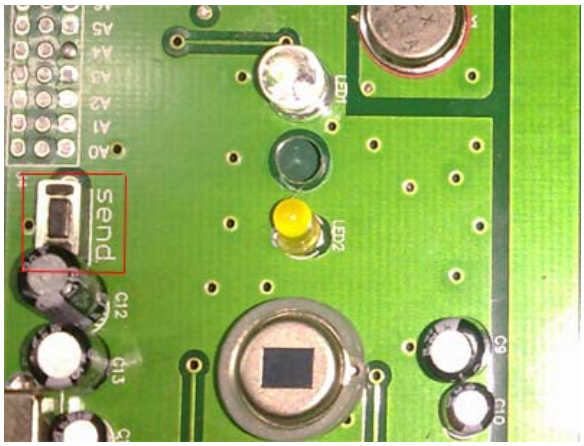


iv). Register panic button to the control host:

Zone 01 is used for panic button. Each zone can learn 4 sensors

Press【SET】→ Input Password (default: 888888) and press【ENT】→ Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ ①Press key to delete two digits at right down side and input zone number 01 and Press 【ENT】→ Press ▼ to change one digit at right down side to **1** and press 【ENT】and then **1** is blinking → Press the button **twice** successively → when hear long "Beep" from the control host, this means the sensor learning is successful

After that please start from ① again to register another sensor.

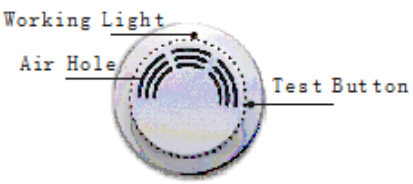
v). Register smoke detector to the control host:

Normally, zones 01 to 05 are used for smoke alarm. Each zone can learn 4 sensors

Remove the back bracket and open the cover to install the battery →

Press【SET】→ Input Password (default: 888888) and press【ENT】→ Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ ①Press key to delete two digits at right down side and input zone number (can be any zone number between 01 to 05) and Press【ENT】→ Press ▼ to change one digit at right down side to **1** and press【ENT】and then **1** is blinking → Press and hold the testing button **twice** successively → when hear long "Beep" from the control host, this means the sensor learning is successful

After that please turn off registered sensor and start from ① again to register another sensor.



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G. Unregister/Deactivate Sensors to the Control Host

1.Sensor

Command: → 【ENT】 →Press to delete 2 digits zone number → Input YY → 【ENT】 → 0

Where "YY": Zone number, includes"00 ~15"

Press 【SET】→ Input Password (default: 888888) and press 【ENT】 → Press ▼ key consecutively until is shown on the LCD and then press 【ENT】→ Press key to delete two digits at right down side and input the zone number and Press 【ENT】 → Press ▼ to change one digit at right down side to **0** and press 【ENT】→ when hear long "Beep" from the alarm host the operation is successful. **Please note: all sensors registered on that zone will be deleted.**

2. Indoor siren

Plug the indoor siren into the power → Press down and hold the learning button at the side for 15 seconds and release → the LED in the siren flashes once.

3. Outdoor siren

Connect the power to the outdoor siren → Keep pressing the red button for 10 seconds and release → a successful deactivation will be followed by a flash of the alarming light

H. Preset Phone Numbers into the Control Host

Command: → 【ENT】 → "Telephone number" → 【ENT】 → Y → 【ENT】

"Y": or (: phone call alert; : SMS message alert)

6 groups of phone number can be stored into the control host. Group 1 is for monitoring centre and other 5 groups are for personal numbers. In this case, group **2~6** are used here.

Press 【SET】 → Input Password (default: 888888) and press 【ENT】 → Press ▼ key consecutively until is shown on the LCD and Press【ENT】→ Press 【ENT】 **Twice** to skip the 1st group → Enter telephone number at the 2nd group (use key to delete old number if any) and press【ENT】 → Use ▼ key to select **or** (- call alert: it will dial the preset phone number; - SMS message alert: it will send SMS message) and then press【ENT】

I. 10 Seconds Voice Message Recording:

1. Make sure the power adapter has been connected to the host
2. Press 【SET】 → Input Password (default: 888888) and press 【ENT】 → Press ▼ key consecutively until is shown on the LCD and press 【ENT】→ press【ENT】to start the 10 seconds recording (speak close to the host)
3. Press and hold the "PLAY" button at back of the host to playback the recorded message

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J. Phone long-distance-control

1. Call-in to control

Dial the phone number associated to the SIM card which in the control host through telephone or cellphone. After a cycle of ringing, the control host will pick up the call. After one beep, enter password (default password is 888888) and then after one beep, pressing phone or cellphone keys.

Concrete operation is as follows:

【1】key: Arming 【0】key: Disarming

The control host will automatically hang up after every command above is entered and operated successfully.

If without any operations, the host will automatically hang up and quit after 15 seconds.

2. Sending SMS message to control

Arm: send SMS message "XXXXXX1" to control host, where "XXXXXX" is the password

Disarm: send SMS message "XXXXXX0" to control host, where "XXXXXX" is the password

The control host will reply message with "Arm successfully" or "disarm successfully".

*Please make sure the SIM card text message storage does not full, otherwise this feature may not work.

3. Telephone alert-receiving

After host alerts, it will automatically dial all pre-set telephones and cellphones in sequence. When the user picks up the phone, it will immediately broadcast alerting record for 30 seconds and let user obtain the alarming information. After phone received, if only listen to alerting voice without long-distance control, please directly hang up, the host will continuously dial the latter phone for alerting, until someone picks up. If there is no person receiving calls, the host will dial all phones in circulation for three times, then automatically hang up and at the same time, it conducts long-distance remote control on the alerting host through telephone and cellphone keyboard operation:

【8】key: Enter into the monitoring listening status for 20 seconds. If continue to monitor, user needs press "8"key again.

【#】key: Play the recorded voice message for one time automatically

【*】key: Quits from the status and hang up, the system will not dial the next group of numbers.

4. SMS message alert-receiving

Mobile will get SMS message like "System Alarming XX, YYYY", "XX" means zone number, "YYYY" means the sensor name.

K. Alarm Setting Command:

Before operating the alarm function setting commands in Table below, user needs to make sure the control host has entered into the program status.

- **How to enter into the program status**: Press 【SET】 → Input password (default: 888888) and press【ENT】
- Use "▲▼" to select between each Main menu. It will return to previous menu by pressing 【ESC】
- The control host will exit program status if without any operation within 20 seconds

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Icon	Function	Operation	Detailed Instructions
——	Set Date	ENT → "▲▼"→ ENT → "▲▼"→ ENT → "▲▼"→ ENT → "▲▼"→ ENT	Correct input: year, month, date and day of the week.
——	Set Time	ENT → "▲▼"→ ENT → "▲▼"→ ENT → "▲▼"→ ENT	Correct input: hour, minute and second.
	Set Auto Dialer #'s	ENT → press" "button consecutively to delete old records → Tel No. → ENT → "▲▼"→ ENT	1. The 1st Group is used for management center and the other 5 groups for personal phone numbers. 2. "▲▼"：to select alarm mode： " " means "phone call alarm"； " "：means "SMS message alarm"
	Set Exit Delay	ENT → press " " button consecutively to delete old records → input desired delay time → ENT	Second, 2-digit, any number from 00 to 59 is valid. Default before shipment is "00"；
	Set Entry Delay	ENT → press" " button consecutively to delete old records → input desired delay time → ENT	Second, 2-digit, any number from 00 to 59 is valid. Default before shipment is "00"；
	Set Alarm Time (Emergency)	ENT → press" " button consecutively to delete old records + Alarm Sound Duration + ENT	Minute, 2-digit, any number from 00 to 59 is valid. Default before shipment is "01"；
	Set Alarm Time (Zone)	ENT + press" " button consecutively to delete old records + Alarm Sound Duration + ENT	Minute, 2-digit, any number from 00 to 59 is valid. Default before shipment is "01"； Note: Fire alarm is fixed for 3 minutes.
	Wireless Learning	Refer to Section E	Refer to Section E
	Set Door/Window Check	ENT + "▲▼" + ENT	Press "▲▼" to choose"1"or"0"： "1"：activate；"0"deactivate； This is to set the door chime during the exit delay
	Set CID Upload	ENT + "▲▼" + ENT	Press "▲▼" to choose"1"or"0"： "1"：upload；"0":NOT upload ；
	Record Voice Alarm Message	ENT + ENT + voice message record + ENT	10 seconds capacity. Counted down from 10, can press ENT to end and save the record, or can wait till counted to 0 and system will save the record automatically.
	Check Work History	ENT + "▲▼" + ENT	Press "▲▼"to review up to 99 work records, press "ENT" to exit.
	Check Alarm History	ENT + "▲▼" + ENT	Press"▲▼" to review up to 99 alarm events, press "ENT" to exit.

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L. How to Change Alarm Password

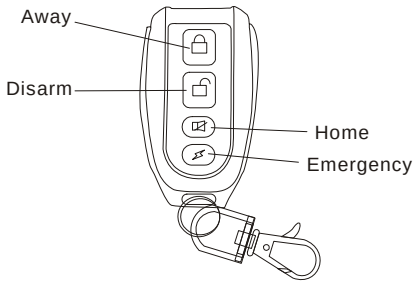
【SET】→ Input 999999 →【ENT】→ Input new six digits password →【ENT】→ Input new six digits password →【ENT】 → sounds long "Di Di--" from the alarm host indicates successful operation

M. Wireless Zones

Zone Number	Sensor Type	Zone Type	Applicable Sensor Name	Remark
00	Wireless sensors	——	Wireless remote & Wireless Keypad	Supports upto 10 remote controls
01 ~ 05		Emergency zone	Wireless Smoke Alarm, Wireless Gas Alarm& Panic button etc.	Each zone supports upto 4 wireless sensors
06 ~ 10		Perimeter zone	Wireless Door/Window Sensor & Wireless Curtain PIR etc.	
11 ~ 15		Motion zone	Wireless Wide-Angle PIR Motion Sensor etc.	

N. Understanding of Wireless Sensor and Installation

Wireless Remote Control



Features:

- To control the alarm host to arm and disarm.
- With the emergency key for urgent help.

Specifications:

- Operating power: 27A 12V alkaline battery
- Emitting distance: ≥100m (in open area)
- Service life: ≤1 year

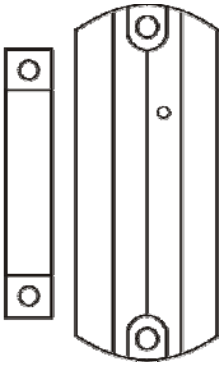
Installation and Usage:

- For users to take along.
- Generally, press the "Away" key to arm before leaving home; and press the "Disarm" key to disarm; "Home" is for "Home Arming", "Home Arming" is only effective for sensors in Perimeter Zone

Wireless Door Sensor

Features:

- Generally set as Perimeter zone.
- If any door or window is opened, it will transmit the alarm signals to the alarm host.



Specifications:

- Operating power: 23A 12V alkaline battery
- Emitting distance: ≥100m (in open area)
- Service life: ≤1 year
- Alarm Distance: ＜4cm

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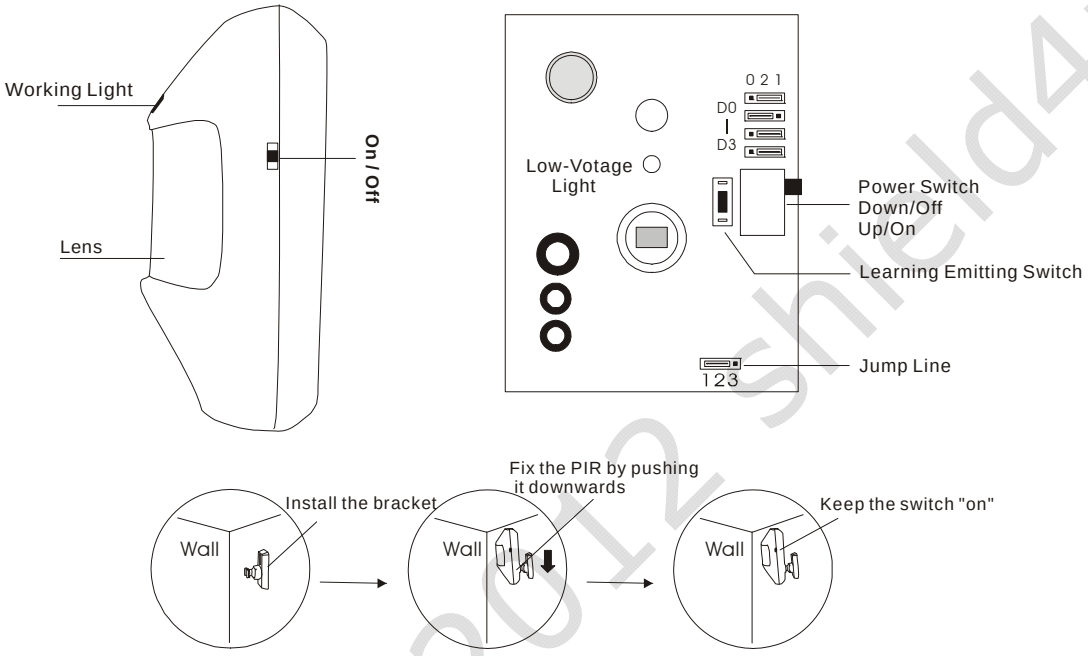
Installation and Usage

- Fix the part of magnet onto the door frame in a position of 1.6m above the ground to prevent any children from bumping onto it
- Fix the part of emitting onto the door frame, make sure to keep the part of magnet and part of emitting in parallel, the space between the two parts shall be less than 10mm
- Upon the working light flashes frequently in blue, please replace the batteries

Wireless Wide-Angle PIR Sensor



Features:

- Mainly monitor and control indoor stereoscopic space, generally set in Motion Zone.
- When human body enters into the detecting area, the sensor will transmit the alarm signals to the alarm host.

Specifications:

- Operating power: 9V alkaline battery
- Emitting distance: ≥150m (in open area)
- Service life: ≤1 years
- Detecting distance: 110° 10×10m

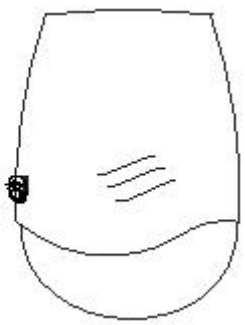
Installation and Usage

- Fix the bracket on suitable wall surface or in wall corner at a distance of 2~2.4m above the ground;
- Open the sensor shell to connect the batteries well and adjust jumper line (short circuit "5S": The sensor will detect once every 5 seconds; short circuit "5MIN": The sensor will detect once every 5 minutes; **suggestion: short circuit "5S" for testing and "5MIN" for normal use;**
- Fix the sensor onto the bracket;
- Adjust the sensor to a proper angle and then slide the power switch on the side to "ON", and it will enter into the normal working state after 30 seconds;
- Upon the working light flashes frequently in blue, please replace the batteries.

Wireless Indoor Siren

Features:

- Work with alarm host, wireless receiving alarm signals, spot alarming with sound and flash
- With power plug, usually for indoor use.



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Specifications:

- Operating Power: 100~240VAC
- Receiving Distance:≥100 M（In open area）

Installation and Usage:

- Plug the wireless siren into suitable indoor power socket
- Suggestion: Generally around 1.8M from the ground

How to reset/unregister:

- Plug the indoor siren into the power → Press down and hold the learning button at the side for 15 seconds and release → the LED in the siren flashes once.

Wireless Smoke Alarm

Features:

- Mainly monitor and control indoor fire risks, generally set to Emergency Zone.
- Replace the batteries for every 1 or 2 year.
- Usually installed on the ceilings of living room and aisles.

Specifications:

- Operating power: 9V alkaline battery
- Emitting distance: ≥100m (in open area)
- Service life: ≤1 year
- Monitoring range: 20m

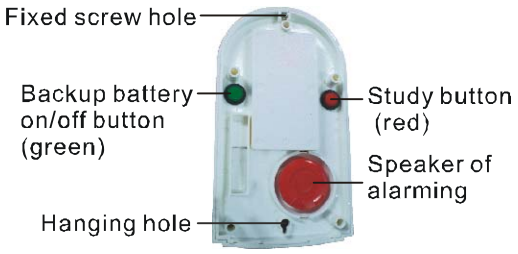
Wireless outdoor siren

Features:

- Nice, exquisite and waterproof
- Mico-computer controlling, steady performance and high-class quality
- Study to at most 10 pcs of wireless alarm host
- With built-in backup battery
- Low standby power consumption, self-inspection of lower battery voltage, automatic charging
- Wall hanging installation

Specifications：

- Operating power：110~240VAC, 50Hz
- Static power consumption：≤40 mA
- Working power consumption：≤450 mA
- Receiving distance：≥100M（In open area）
- Alarming volume：≥110db



Installation and usage:

- Press down the green power switch at the back after connecting the siren to the AC power
- Study the siren to the alarm host according to the instruction
- Unplug from the AC power, fix it in the proper outdoor place with handing hook, and then plug to the AC power

How to reset/unregister

- Connect the power to the siren and keep pressing the red button for 10 seconds and release, a successful deactivation will be followed by a flash of the alarming light

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O. Control Host Specifications:

- Working power: AC=100~240V DC=12VDC (1A)
- Static current:≤ 50mA(when not charging), Alarm current:≤ 500mA
- Supports up to 10 wireless remotes, 60 wireless sensors.
- Working condition: Temperature:-10~50℃; Humidity:＜80%
- Backup battery: Li-ion battery: 3.7V / 1200 mAh; Standby:24 hours
- Backup battery Charging time: 12 hours
- GSM frequency: Tri-Band(900 / 1800 / 1900 MHZ)
- GSM emitting power:2W
- Linear Transmission Distance: 250m in open air

P. Troubleshooting

Problem	Probable Reasons	Available Solutions
Cannot dial for alarm	● No arming ● Alerting phone unsetted ● Parts improperly installed ● Code no match ● SIM card overdue	● Do arming operation ● Re-set according to the specification ● Coordinating the location of parts ● Re-coding ● Pay to the SIM card ● Turn off SIM card PIN code
The control host can't record voice	Did not connect the power adapter to the control host	Connect the power adapter to the control host
Repeatedly receiving the alarm telephone	Fail to operate according to the operation instruction of the telephone alarm	Follow the instructions after answering the alarm phone calls and hearing the recorded message
Can't receive alarm SMS message or can't receive SMS reply message after arming or disarming by SMS	● SIM card is not insert properly ● SIM card message storage is full ● GSM signal is not good enough	● Insert SIM card properly ● Clear messages which stored in the SIM card ● Adjust alarm host's installation position to get the good signal strength
The host does not alarm after the detector is triggered in arm state	● Caused by the functions of arm mode (Armed Away and Armed Home); ● Have already setup time for Entry Delay or Exit Delay ● Alarm sound has been turned off	● "Armed Away" mode: alarm goes off when any sensor is triggered; ● "Armed Home" mode: alarm goes off when any sensor in Perimeter zone is triggered and it won't alarm when any sensor in Motion zone is triggered ● Program to adjust the time for Entry Delay or Exit Delay ● Turn on the alarm sound according to section G.
The PIR sensor doesn't work	● Not properly connected to the power ● Jumper problem ● Coding un-matched with the control host	* Open the sensor shells to install the batteries well and slide the power switch to "On"; * "5S": detect once every 5 seconds; * "5MIN": detect once every 5 minutes; * Learn the PIR to the control host
The detecting distance of PIR sensor gets shorter	The ambient temperature in the detecting area is too high.	When the ambient temperature in the detecting area exceeds the human body temperature, the detecting distance will get shorter, it's normal.
the transmission distance of detector to panel shorten	● a nearby emitter is sending code	● move one detector next to panel and try

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	● Panel receiver stoppage standby battery of the Panel insufficient	● identify the interfering source and eliminate it check Panel power whether plugged well
The PIR sensor flashes frequently in blue.	Batteries are running out.	Replace with new batteries of the same specification.
The door sensor's indicator flashes frequently.	Batteries are running out.	Replace with new batteries of the same specification.
The distance of the remote controller gets shorter.	Batteries are running out.	Replace with new batteries of the same specification.

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